

20000505.qrp v01\_n812.qrl.20000505

Date: Fri, 5 May 2000 19:03:11 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1812

QRP-L Digest 1812

Topics covered in this issue include:

- 1) [69435] [Fwd: Warning - New Computer Virus]  
by Laura A Fisher <wlfisher@bellatlantic.net>
- 2) [69436] Re: QRP Transceivers in close proximity?  
by wb2vuo@juno.com
- 3) [69437] Re: NorCal: New Kit to be available at NorCal Meeting Sunday  
by tailfeathers@juno.com
- 4) [69438] Appalachian Trail Alert for PA  
by "Ron Polityka" <wb3aal@talon.net>
- 5) [69439] Laminated Panels  
by "Ed Tanton" <n4xy@att.net>
- 6) [69440] Re: OT: GPS Accuracy  
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
- 7) [69441] Re: NorCal: New Kit to be available at NorCal Meeting Sunday  
by "Doug Hendricks" <ki6ds@hotmail.com>
- 8) [69442] Thanks for help with QRP transceivers in close proximity?  
by Jeff <fantbb@yahoo.com>
- 9) [69443] 40m dipoles  
by "Ron Giuntini" <rong@slip.net>
- 10) [69444] Anybody want to buy an SMK-1 all put together?  
by Jeff Grudin <grudin@vdb.com>
- 11) [69445] SMK-1 on 30 meters????  
by "Karl Heimbach" <heimbachk@mindspring.com>
- 12) [69446] Estate sale at Norcal meeting Sunday  
by WD6BOR@aol.com
- 13) [69447] Sierra For Sale  
by Jeff Grudin <grudin@vdb.com>
- 14) [69448] Re: Used Book Store  
by Larry Jones <ljones@flash.net>
- 15) [69449] BG Micro Tel. and Web info  
by n4so@juno.com
- 16) [69450] FS, ZM-2 Tuner in Larger Enclosure  
by Thomas Kuehl <ac7a@gci-net.com>
- 17) [69451] Re: Cheaper 2n3553's  
by Thomas Kuehl <ac7a@gci-net.com>
- 18) [69452] I love you bug don't open if you get it all over the news  
by "M. Pender" <steam@megsinet.net>
- 19) [69453] Dual Voltage Power Supply Metering?

- by Brian Short <bshort@speedchoice.com>
- 20) [69454] Re: 40m dipoles  
by K7GT@aol.com
- 21) [69455] Red Hot Radio - New Logo  
by Dave Fifield <fifield@pacbell.net>
- 22) [69456] QRPTTF - KF2EW  
by David M Kopacki <kf2ew@juno.com>
- 23) [69457] Preparing to Build 2N2/40  
by wb2vuo@juno.com
- 24) [69458] QRPTTF Report  
by "John L. Sielke" <n4js@pobox.com>
- 25) [69459] OT: Tulsa area QRP'ers?  
by "John Burnley" <burnleyia@home.com>
- 26) [69460] Michigan QRP Club Net  
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 27) [69461] ZM-2 in Larger Enclosure - Sold  
by Thomas Kuehl <ac7a@gci-net.com>
- 28) [69462] Callbooks  
by Bob Hightower <nk7m@extremezone.com>
- 29) [69463] Re: Michigan QRP Club Net  
by "Frank Krozel" <frank@electronicinstrument.com>
- 30) [69464] QRPTTF - KF2EW  
by Michael C Boatright <ko4wx@mindspring.com>
- 31) [69465] Re: Still more on GPS sensitivity  
by "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
- 32) [69466] CONTEST: QRP Calendar - This Weekend  
by Ken Newman <N2CQ@citnet.com>
- 33) [69467] Re: Red Hot Radio - New Logo  
by "Paul Harden, NA5N" <na5n@rt66.com>
- 34) [69468] Bench Mercury Paddle in new HRO cat.  
by "Rod, N0RC" <n0rc@qsl.net>
- 35) [69469] Nov SS--results available  
by "Rod, N0RC" <n0rc@qsl.net>
- 36) [69470] Re: 40m dipoles  
by "Dan W. Dooley" <dandooley@pipeline.com>
- 37) [69471] Headset  
by Duane Alles <w9zm@yahoo.com>
- 38) [69472] Pictures of my SMD Hold Down Jig  
by "Jerry Henshaw" <jhenshaw@bellsouth.net>
- 39) [69473] Mail outage  
by Monte Stark <ku7y@dri.edu>
- 40) [69474] Re: QRP TTF 2000 pix on my page.  
by Ed Loranger <we6w@qsl.net>
- 41) [69475] Re: 40m dipoles  
by N10DL@aol.com
- 42) [69476] QRPTTF: W7TA0  
by Bruce Grubbs N7CEE <n7ceeqrp@earthlink.net>
- 43) [69477] Re: Dual Voltage Power Supply Metering?

by "Steven Weber" <kd1jv@moose.ncia.net>  
44) [69478]  
by brian@iquest.net  
45) [69479] RE: Dual Voltage Power Supply Metering?  
by "Ed Tanton" <n4xy@att.net>  
46) [69480] SWR Meter  
by Ab5xq@aol.com  
47) [69481] HEATH DX 60  
by JOHN FISHER <ve7fdg@mad.scientist.com>  
48) [69482] Speaking of BG-Micro  
by "Ed Tanton" <n4xy@att.net>  
49) [69483] Re: Nov SS--results available  
by Shepherd@aol.com  
50) [69484] Summary: Dual Voltage Power Supply Metering  
by Brian Short <bshort@speedchoice.com>  
51) [69485] Re: Nov SS--results available  
by Brian Short <bshort@speedchoice.com>  
52) [69486] Re: Dual Voltage Power Supply Metering?  
by igeq100@iupui.edu  
53) [69487] 1 volt circuit expert needed  
by Bruce Kizerian <kizerian@ced.utah.edu>  
54) [69488] Re: Laminated Panels  
by John AE5X <ae5x@juno.com>  
55) [69489] QRP ARCI QSO Party Log -- LOST...  
by Ed Loranger <we6w@qsl.net>  
56) [69490] NorCal: Kitting Party Saturday  
by "Doug Hendricks" <ki6ds@hotmail.com>  
57) [69491] RE: SWR Meter  
by Ab5xq@aol.com  
58) [69492] Re: Still more on GPS sensitivity  
by "Steven Weber" <kd1jv@moose.ncia.net>  
59) [69493] Stockton SWR Meter Circuit  
by Stanley A Mcintosh <mcintos@basf-corp.com>  
60) [69494] OT: MIR SSTV - What Freqs and Mode?  
by Bcieslak@ra.rockwell.com  
61) [69495] SMK-1 - finding the gremlins  
by n5ib@juno.com  
62) [69496] Re: Stockton SWR Meter Circuit  
by "Mike Branca" <w3irz@att.net>  
63) [69497] Re: Anybody want to buy an SMK-1 all put together?  
by "KA5T Larry Wise" <lewise@inetport.com>  
64) [69498] Re: SMK-1 - finding the gremlins  
by "Robert P. Okas" <vintage@best.com>  
65) [69499] SMK-1 gremlins, an update  
by n5ib@juno.com  
66) [69500] Prospective Amateurs  
by Daniel Bartlett <ausham@yahoo.com>  
67) [69501] RE: SWR Meter

by "Carel Mulder, PA0CMU" <cmulder@casema.net>  
68) [69502] Re: NorCal: New Kit to be available at NorCal Meeting Sunday  
by wd3p@juno.com  
69) [69503] Re: Still more on GPS sensitivity  
by wd3p@juno.com  
70) [69504] Re: Still more on GPS sensitivity  
by "Brian P. Mileschosky" <n5zgt@swcp.com>  
71) [69505] Re: SWR Meter  
by Bob Hightower <nk7m@extremezone.com>  
72) [69506] Re: Warning: XYL on Warpath!  
by "Randy Joiner" <biggman@accucomm.net>  
73) [69507] Appalachian Trail Alert for PA Update  
by "Ron Polityka" <wb3aal@talon.net>

-----  
Date: Thu, 04 May 2000 19:02:19 -0400  
From: Laura A Fisher <wlfisher@bellatlantic.net>  
To: ". Eastern PA QRP Club" <epaqrp-1@Lehigh.EDU>, al saldarini  
<alsaldarini@worldnet.att.net>, "ARRLHUDSON@aol.com" <ARRLHUDSON@aol.com>,  
Berty Lester <berty@orn.net>, Bob Marsh <kb2sgm@home.com>, "Bob, Eileen, &  
Bobby Bendlin" <fireben390@aol.com>, Bonnie Bendlin <bonben1@aol.com>,  
Subject: [69435] [Fwd: Warning - New Computer Virus]  
Message-ID: <3912017B.14CAB33A@bellatlantic.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

deluca@tellurian.net wrote:

> Part 1.1 Type: Plain Text (text/plain)  
> Encoding: quoted-printable

-----  
Date: Thu, 4 May 2000 10:15:37 -0400  
From: wb2vuo@juno.com  
To: qrp-1@lehigh.edu  
Subject: [69436] Re: QRP Transceivers in close proximity?  
Message-ID: <20000504.101538.-170557.0.wb2vuo@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Over the last 5 Field Day events, the Brockport Amateur Radio Klub (BARK) ran either 4A or 5A on QRP/Battery.

As long as we stayed with one rig per band, we had no problems. All of the antennae were within a 300 foot radius of the hall (We operated from a meeting hall at the local Rod & Gun club). The rigs were set up inside a 20 x 45 foot hall, and the only "interference" was from the sound levels.

We did have a minor problem with the 6 Meter station one year. We ran a Ten Tec Argonaut 509 and the Ten Tec 1208 transverter. The 20 Meter IF on 6M was heard very well on the 20 Meter station. By picking our operating frequencies, the interference was minimized. A fancy filter like the ICM's would not have helped as the interfering signal was actually on the operating frequency.

I recall hearing a local that was using a Swan 250 and Swan TV-2 for 2M SSB, and I could hear his 6M IF "leaking" from 3 miles away...

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp  
VP & FD'00 Chairman, Brockport Amateur Radio Klub & SOC # 119  
My night light runs more power than my Rig!!!  
Replies off-list to: wb2vuo@arrl.net

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-----  
Date: Thu, 4 May 2000 20:02:31 -0400

From: tailfeathers@juno.com

To: ki6ds@hotmail.com

Cc: qrp-1@Lehigh.EDU

Subject: [69437] Re: NorCal: New Kit to be available at NorCal Meeting Sunday

Message-ID: <20000504.200530.-3998273.1.tailfeathers@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

This wouldn't be a memory keyer that fits inside the SMK-1 would it? If not is there one I can install in it? This is going to be my 40metermobilelunchbreakcwstation. And I had the idea first so you guys

back off...:>) Actually I need at least one of you to do it too or it won't be a SMK-1 to SMK-1. I have an extra 40 antenna to tune in to 7040. very cool!  
Gary n8gsj

On Wed, 03 May 2000 12:21:49 PDT "Doug Hendricks" <ki6ds@hotmail.com> writes:

> Guys, I will have a good supply of the newest NorCal kit, which will  
> be offered at the NorCal meeting on Sunday. It will cost \$25, it is  
> not a transceiver, it is not a parts kit, you will build it, and it was  
  
> designed by a very famous qrper who has never designed a NorCal > >  
project. The kit is complete with all parts including case. It works >  
> > very well with the SMK-1!!

-----  
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<http://dl.www.juno.com/get/tagh>.

-----  
Date: Thu, 4 May 2000 20:11:20 -0400  
From: "Ron Polityka" <wb3aal@talon.net>  
To: ". QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [69438] Appalachian Trail Alert for PA  
Message-ID: <01fd01bfb626\$7161a3a0\$f5e508cf@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Everyone,

Len, N2BSC & myself, WB3AAL, are going to the Appalachian Trail on May 6, 2000 in the state of PA. We will be on the border of Berks & Schuylkill Counties for those county hunters out there. We should be on the air sometime between 13:00 & 13:30 UTC

Len will be operating 20 meters near the 14.060 MHz, plus or minus due to QRM.

I will be starting out on 40 meters and then changing bands every 30 minutes.

I will be operating around 7.040, 14.060, 21.060 & 28.060 MHz. This should give everyone a chance to operate WB3AAL from the Appalachian Trail.

I will be on 40, 20, 15 and 10. I am going to see if we can't both be on 20

meters.

Len will using a vertical and I will be using a doublet dipole. I will give it a try.

We will be on the air until 20:00 or 20:30 UTC, it depends on the activity.

I just about have the QSL cards printed from my other trips and I will have special QSL cards printed for this trip.

72 & 73  
Good DXing

Ron Polityka  
de WB3AAL  
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv  
<http://www.n3epa.org>  
Eastern Pennsylvania QRP Club Call  
N3EPA E-mail address: n3epa@talon.net

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society #45	

-----  
Date: Thu, 4 May 2000 21:12:37 -0400  
From: "Ed Tanton" <n4xy@att.net>  
To: "Homebrew Reflector" <homebrew@qth.net>  
Cc: "QRP-L Reflector" <qrp-l@Lehigh.EDU>  
Subject: [69439] Laminated Panels  
Message-ID: <CKEGICNFDIMCEKEDCEHFAEJFCEAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Does anyone recall the URL/email reference I put out a couple of months ago about really nice, laminated, multilayer applique panels for homebrew/etc. projects? When my OS went away, taking all my emails with it, that went with it.

73 Ed Tanton <n4xy@arrl.net>

website: <http://www.qsl.net/n4xy/>

-----  
Date: Thu, 04 May 2000 21:29:54 -0400  
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>  
To: jaywa5whn@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [69440] Re: OT: GPS Accuracy  
Message-ID: <39122411.82FE329A@quartz.gly.fsu.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

jaywa5whn@juno.com wrote:

> As someone had posted in a previous note, now the visible error is a  
> direct function of multipath & ionospheric diffraction. Amazing stuff for  
> a hand held 1.2 GHz spread spectrum receiver that costs less than \$200.00  
> {US} now.

Actually, I suspect that all of the GPS transmitters are operating on exactly the same frequency and that frequency is close to 1.6 Ghz. Your receiver identifies the individual satellites by the numerical string being sent. It knows where the satellite is because an almanac is downloaded when you power the unit up. The signal itself is below the noise level. Your receiver can identify the satellite signal by correlating whatever "pseudo-random code" (ie noise) is being received on the satellite frequencies with it's preloaded knowledge of what the individual numbers should be. If there is a high correlation, the receiver accepts the number and the signal is processed.

Each Russian GLONASS bird operates on its own frequency (1.5 Ghz plus or minus) but, to the best of my knowledge, this is all single frequency...not spread spectrum.

Military "P" code GPS signals are transmitted at 1.2-1.3 Ghz but this has nothing to do with SA. Also the "P" code signal is decoded by examining the phase of the arriving signal...not the numerical data string being sent. I have seen submeter accuracy claims for "P" code without post processing but I am not sure how much I believe. A "P" code receiver is used when I collect offshore subsurface acoustic profile data for my day job during the summer months( my cooperative agreement partner is a federal agency with access to a military unit). The "P" code receiver does not look all that different



from the GPS units we all use but it has an authentication chip. The receiver can be remotely shut off if it is borrowed by "unauthorized" personnel. At any rate, lacking evidence to the contrary, my gut feeling is about 1m of accuracy is what is available 98% of the time from a "P" code unit but I have no hard numbers to back this up. A 1.6 Ghz signal with SA removed should be fine for anything any of us would want to do.

Jay is right. It is amazing what a \$200 box can do.

-----

Date: Thu, 04 May 2000 19:16:46 PDT  
From: "Doug Hendricks" <ki6ds@hotmail.com>  
To: tailfeathers@juno.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [69441] Re: NorCal: New Kit to be available at NorCal Meeting Sunday  
Message-ID: <20000505021646.18283.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Nope, better than a memory keyer, and more usable, you will either have to come to the meeting Sunday or wait until I get home to post it. With pictures of course. 72, Doug

>From: tailfeathers@juno.com  
>To: ki6ds@hotmail.com  
>CC: qrp-1@Lehigh.EDU  
>Subject: Re: NorCal: New Kit to be available at NorCal Meeting Sunday  
>Date: Thu, 4 May 2000 20:02:31 -0400  
>  
>This wouldn't be a memory keyer that fits inside the SMK-1 would it? If  
>not is there one I can install in it? This is going to be my  
>40metermobilelunchbreakcwstation. And I had the idea first so you guys  
>back off...:)> Actually I need at least one of you to do it too or it  
>won't be a SMK-1 to SMK-1. I have an extra 40 antenna to tune in to  
>7040. very cool!  
>Gary n8gsj  
>  
>On Wed, 03 May 2000 12:21:49 PDT "Doug Hendricks" <ki6ds@hotmail.com>  
>writes:  
> > Guys, I will have a good supply of the newest NorCal kit, which will  
> > be offered at the NorCal meeting on Sunday. It will cost \$25, it is  
> > not a transceiver, it is not a parts kit, you will build it, and it was  
>  
> > designed by a very famous qrp'er who has never designed a NorCal > >  
>project. The kit is complete with all parts including case. It works >

> > > very well with the SMK-1!!

>

>

>-----  
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><http://dl.www.juno.com/get/tagh>.

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-----  
Date: Thu, 4 May 2000 19:46:46 -0700 (PDT)

From: Jeff <[fantbb@yahoo.com](mailto:fantbb@yahoo.com)>

To: qrp qrp <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>

Subject: [69442] Thanks for help with QRP transceivers in close proximity?

Message-ID: <20000505024646.2493.qmail@web107.yahoomail.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Thanks all for the input about QRP transceivers in close proximity. It looks like ICE filters are in our future! This will really help us have a great field day!

Jeff

=====

Jeff Jones

AB6MB

NorCal QRP Club #65, QRP-L #1780, ARCI 10071

Radical FIST Member 6798

Voicemail/Fax 1-888-Excite2 ext 925-439-2514

ICQ 62450117

-----  
Do You Yahoo!?

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-----  
Date: Thu, 4 May 2000 20:00:41 -0700

From: "Ron Giuntini" <[rong@slip.net](mailto:rong@slip.net)>

To: "Low Power Amateur Radio Discussion" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>

Subject: [69443] 40m dipoles

Message-ID: <006101bfb63e\$19d6d340\$5110b9d8@rongiuntini>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I don't have enough room for a full length forty meter dipole. Was thinking about a trapped dipole without a tuner. Anybody have experience with these on low power? Or how about folding the ends of the full length dipole? I am thinking about avoiding a tuner, but don't have a lot of space..I always liked dipoles or inverted v's, and don't have much experience with verticals..

Ron Giuntini  
KB6GK

PS...My SMK-1 is waiting for me to get time to finish it...I got the hang of dealing with the components, and felt better after I looked at a hard drive and saw how small the REAL small sm's are...How could anybody build a kit with them without a microscope????..and now I am waiting to see what the new secret kit is.....

-----  
Date: Thu, 04 May 2000 20:10:53 -0700  
From: Jeff Grudin <grudin@vdbbs.com>  
To: qrp-l@lehigh.edu  
Subject: [69444] Anybody want to buy an SMK-1 all put together?  
Message-ID: <39123BBD.16FF75D8@vdbbs.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Guys,

Despite asking for help on this list, and specifically from folks I used to think were my friends, I have gotten none. Oh well, that is kinda how my weeks been going.

I have built an SMK-1 and it works fine. I have had a QSO with it with a friend, however, I am unable to figure out how to use it in real life. The manual does not really explain it, and I am apparently too dense to figure it out.

So if one of you guys want to try to figure it out, but didn't want to do the surface mount thing, I have one for sale. I have an enclosure coming from the NJ guys and can either build that and put the whole thing together for you, or forward it with the unbuilt enclosure.

\$44 would cover the whole shebang.

--

73 de AC6KW <mailto:grudin@vdbbs.com>  
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>  
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California  
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

-----

Date: Thu, 4 May 2000 22:17:52 -0500  
From: "Karl Heimbach" <heimbachk@mindspring.com>  
To: "QRP L Reflector" <qrp-l@Lehigh.EDU>  
Subject: [69445] SMK-1 on 30 meters????  
Message-ID: <042301bfb640\$896541e0\$5f0505ac@phoenix>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang,

#291 went together a couple of nights ago without any problems. I've made a couple of QSO's with it and am very pleased.

Has anyone taken the plunge and put a SMK on 30 meters yet? I'd be interested in hearing from you if you have.

Karl - W5QJ  
Orange, TX

-----

Date: Thu, 4 May 2000 23:26:51 EDT  
From: WD6BOR@aol.com  
To: qrp-l@lehigh.edu  
Subject: [69446] Estate sale at Norcal meeting Sunday  
Message-ID: <31.4a74352.2643997b@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

A couple of us VOMARC guys (Valley of the Moon ARC) will have a couple of trailers at the Norcal meeting this Sunday at the California Burger. We had our annual hamfest up in Sonoma last weekend and had the estate of Sam

Sullivan, W6WXU, there to sell for his family. We will be taking the two trailers-full of gear and parts that were left from the hamfest to the Livermore swap at Los Positas College. Whatever doesn't sell will be in the trailers at the Norcal meeting and will be specially priced for Norcal members and guests... all you can carry away for free! If you will be at the meeting please remember to bring wheelbarrows, buckets and handcarts to haul the stuff off.

Sam was licensed in 1932 and worked as an electronics engineer for his whole life. He retired from Mare Island where he ran quite a few highly technical projects for the government. I had hoped to find the Tuna Tin 2 he had build from the original article in QST years ago, but so far haven't been able to turn it up. I will bring a few of the many projects he build, including a number of QRP rigs and transistor radio "conversions". Sam was the guy who first got me interested in QRP and he was a wonderful Elmer while I was learning about this enjoyable hobby. His daughter, Joan, has just received his call so we'll have the pleasure of hearing W6WXU for many more years.

See you Sunday! 72, Darrel, WD6BOR

-----  
Date: Thu, 04 May 2000 20:28:33 -0700  
From: Jeff Grudin <grudin@vdb.com>  
To: qrp-l@lehigh.edu  
Subject: [69447] Sierra For Sale  
Message-ID: <39123FE1.DCF16A6D@vdb.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have a Wilderness Sierra for sale. It is a great radio, but I find that I am not using it much anymore. My first contact with it was to Tierra Del Fuego with less than 2 watts. The construction is well done (I can send pictures if you like). Many of you have worked me on it during contests.

It comes with:

40/20M modules  
KC2 Keyer/Counter/S Meter/Wattmeter  
Wilderness KC2 front panel

5 Watt Mod  
Variable bandpass filter  
XIT/RIT Mod

New (Unbuilt Kit) - \$372.00

Built and Functioning - \$325 plus shipping

--

73 de AC6KW <mailto:grudin@vdbs.com>  
Jeff Grudin, DVM Web Add: <http://www.vdbs.com/~grudin>  
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California  
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

-----  
Date: Fri, 05 May 2000 00:21:43 -0500  
From: Larry Jones <ljones@flash.net>  
To: qrp-l@lehigh.edu  
Subject: [69448] Re: Used Book Store  
Message-ID: <39125A67.19A6@flash.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greetings...

Try alibris.com

Larry N50SG

-----  
Date: Fri, 5 May 2000 00:30:58 -0500  
From: n4so@juno.com  
To: qrp-l@Lehigh.edu  
Subject: [69449] BG Micro Tel. and Web info  
Message-ID: <20000505.003151.-147977.13.N4S0@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

From: sigcom@juno.com  
Date: Thu, 4 May 2000  
Subject: BG Micro Tel. and Web address

BG Micro was the source for the 2N3553 Power transistor.

1-800-276-2206  
<http://www.bgmicro.com/>

They have an on-line catalog--  
NNNN  
bgmicro.txt

Ken Brown, N4SO  
Mobile, AL EM50tk  
NorCal-20 at 5 watts  
4 element yagi

-----  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Thu, 04 May 2000 23:04:54 -0700  
From: Thomas Kuehl <ac7a@gci-net.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [69450] FS, ZM-2 Tuner in Larger Enclosure  
Message-ID: <39126486.F642B21C@gci-net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Howdy All:

Yesterday, I received a ZM-2 tuner that I purchased from a fellow here on QRP-L. I was a bit surprised when I opened the box to find the ZM-2 kit assembly had been assembled in an enclosure larger than that supplied by Emtech. Although this should have little affect on the tuner's performance this is a problem for my intended on-the-fly, portable uses. It should be completely suitable for home installations and less compact QRP applications.

Since it is not suitable for my needs, I would like to offer it for sale to someone who can accept the larger size. The ZM-2 circuitry is assembled in an aluminum box 3" tall, 8" wide, and 5" deep. It is an unpainted enclosure and is somewhat stylized and sturdy. A nice feature is the S0239 and binding post connectors are all mounted on the rear panel.

I am selling the tuner (with documentation) for the same price I paid for it, \$35(\$US). Add \$3.50 for shipping, and if it is any higher, I'll cover the difference. Please email inquiries directly to me.

Thanks, Thomas - AC7A (Tucson)

-----  
Date: Thu, 04 May 2000 23:16:58 -0700  
From: Thomas Kuehl <ac7a@gci-net.com>  
To: sigcom@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [69451] Re: Cheaper 2n3553's  
Message-ID: <3912675A.32D8FA92@gci-net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello Steve,

Interesting information about the 576 prefix for EF Johnson transistors. Back in the late 60's and 70's, I often came across surplus transistors that used that prefix. I have some matched pairs of PNP, high-frequency transistors that were surplus by Tektronix and they use a 576 prefix as well.

I was under the impression that it was an OEM prefix, used by manufacturers to keep their designs proprietary. Sort of like the those oddball transistor numbers that Heathkit used (417-).

Regards, Thomas - AC7A (Tucson)

sigcom@juno.com wrote:

> Group,  
>  
> The complete EFJ part number is:  
> 576-0004-013, hence the abbreviation '4013'. Most EFJ transistor markings  
> are abbreviated this way, the 'prefix' being 576-000. This particular  
> transistor is good for about 1.5 Watts up to 150 mHz, so it would be a  
> fine P.A. or driver transistor on the low bands. At \$0.99 they are a  
> terrific deal.  
>  
> 73.....Steve, WB6TNL  
> The Scrounger  
>  
-----  
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
> Juno now offers FREE Internet Access!  
> Try it today - there's no risk! For your FREE software, visit:  
> <http://dl.www.juno.com/get/tagj>.



Date: Fri, 5 May 2000 01:47:10 -0500  
From: "M. Pender" <steam@megsinet.net>  
To: <aw-confirm@ebay.com>, "Avila, Kim (MS-Mail)" <kavila@kraft.com>, "Avvid Clif" <clif@avvid.com>, "Don Bertone-qrz.com(kk6an)" <dbertone@flash.net>, "Bob KB9MJN" <kb9mjin@megsinet.net>, "Dan Burke" <djburke@megsinet.net>, "Rob Burke" <thebone@gateway.net>, "carol hillock" <carohill@home.com>,  
Subject: [69452] I love you bug don't open if you get it all over the news  
Message-ID: <000701bfb65d\$c257a200\$571028d0@megsinet.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Computer 'ILOVEYOU' bug hits U.S., Asian, European businesses, =  
government  
=20  
May 4, 2000=20  
Web posted at: 8:54 AM EDT (1254 GMT)=20

HONG KONG (AP) -- A computer virus spread by e-mail messages titled =  
"ILOVEYOU" infected U.S., Asian and European computers today, apparently =  
hitting public relations firms and investment banks in Asia particularly =  
hard.=20

The virus appeared in Hong Kong late in the afternoon, spreading =  
throughout e-mail systems once a user opened one of the contaminated =  
messages.=20

Nomura International (HK) Ltd. in Hong Kong was affected, an analyst =  
there said, as was Nomura's London office. In Asia, Dow Jones Newswires =  
and the Asian Wall Street Journal were among the victims.=20

"It crashed all the computers," said Daphne Ghesquiere, a Dow Jones =  
spokeswoman in Hong Kong. "You get the message and the topic says =  
ILOVEYOU, and I was among the stupid ones to open it. I got about five =  
at one time and I was suspicious, but one was from Dow Jones Newswires, =  
so I opened it."=20

The "love bug" also invaded some computers in the United States this =  
morning, but there was no immediate word on the severity.=20

Once the message was opened, Ghesquiere said, it began sending the virus =  
to other e-mail addresses within the Dow Jones computers, blocking =  
people's ability to send and receive e-mail. Victims sometimes received =  
dozens of e-mails, all contaminated.=20



XX.X or -XX.X etc of voltage (or possibly current also).

Anyone know of (cheap, simple) 3 digit voltage meters that might be added to this project?

Reply any way you wish, I'll be happy just to get some ideas.

Thanks, Brian

--

mailto:k7on@earthlink.net

--

-----

Date: Fri, 5 May 2000 03:02:55 EDT  
From: K7GT@aol.com  
To: rong@slip.net, qrp-1@lehigh.edu  
Subject: [69454] Re: 40m dipoles  
Message-ID: <b2.4c4122d.2643cc1f@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Unless you really want to cover another band (20m, say) you would be much better off just bending the ends of a 40m dipole to fit your yard space. A 40m inverted dipole works just fine; a 40m dipole with all of the radiating element at

the apex height of the inverted dipole radiates better. A dipole bent to fit is

someplace between the two and should do just fine. The more important thing to remember is HEIGHT. Get the thing up as high as possible if you want other than local (300-400 mi) coverage. A minimal height for a 'good' 40m dipole would be 40 ft. 50, 60, 70 is, of course better! I have worked DX with a 40m inverted dipole with apex at 33 ft, but used an amp (no, I am NOT a QRP purist...)

If you are much lower than that, though, you might consider a vertical instead or

perhaps mounting the dipole as a sloper (sloping dipole) with the downward slope in a direction for which you might like to slightly enhance the performance. A

sloper is as much vertical as it is horizontal, so is tolerable for both local stuff

(horizontal with a low height for NVIS type propagation, and vertical for longer

distance stuff). This advice would be modified if you were talking 20m (I worked into

EU from my field site last weekend with a 20m dipole up maybe 20'!! where a

vertical

would likely not as performed nearly so well) Verticals are a superior DX antenna

for 40m and longer wavelengths, but suffer because of ground conductivity issues above 20m or so. Look up pseudo-Brewster angle in the ARRL Antenna Book.

73 Allan K7GT

QTH is Pleasanton CA

-----  
Date: Sat, 06 May 2000 00:10:49 -0700  
From: Dave Fifield <fifield@pacbell.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [69455] Red Hot Radio - New Logo  
Message-ID: <001f01bfb72a\$35653d80\$0100a8c0@pacbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

We got fed up with not being able to get good embroidered logos on shirts/hats/etc. so we decided to redesign the Red Hot Radio logo - the old one was just one I threw together quickly as a place holder anyway - not much thought or care went into it.

Many new versions (very artistic too, some of them) had been previously sent to us when we asked for people to help us design a new logo, but mostly all were too complex or had a pepper or satanistic theme that we weren't sure about using!

In the end we decided to use a simple logo that only uses one foreground color (red, of course!) that looks best on a dark blue background. Take a look at it on the Red Hot Radio website and let us know what you think. There's not supposed to be anything mystical or egotistical about it, so don't spend a lot of time looking for hidden meanings!

Cheers es 72,  
Dave Fifield, AD6A  
<http://www.redhotradio.com>

-----  
Date: Fri, 5 May 2000 06:34:11 -0400

From: David M Kopacki <kf2ew@juno.com>  
To: qrp-1@lehigh.edu  
Subject: [69456] QRPTTF - KF2EW  
Message-ID: <20000505.063412.-16517865.1.kf2ew@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

What a great time!

Here on the east coast the WX had promised to be marginal at best but by Friday evening the skies had cleared. John, AE5X who shared my campsite Friday night, and I enjoyed a charcoal grilled steak with baked potatoes and corn on the cob, all courtesy of John. As we ate and the stars began to appear you could feel the excitement building...

The next morning we had hot coffee, hot bacon and hot oatmeal. This was a good way to start the day considering the vehicles were covered with ice when we emerged from our tents!

We broke camp at 7:20 am and went to our respective spots on the AT. On the way up I saw 2 turkeys, 22 deer and 2 hunters. It took 30 minutes to set everything up and WHAT??!!?? NO POWER! Aargh! What happened? I checked everything out the night before in the tent...reset, pull out, push in, switch on, switch off...nothing! Finally checked the fuse and sure enough it had blown, although I don't know when. Fortunately and even though it wasn't on my 'official' camping checklist (it is now) I had picked up 3 spare ones before I left the house. Yes, baby, back on the air!

I made 8 AT contacts prior to the contest from a location that was out of sight! Huge rock formation on the top of a ridge overlooking Sunfish Pond. Beautiful! Made 36 contest QSOs. Tried all day to work NQ4RP but could not get any response at all the entire 6 hours. Finally, at 4:30 pm, 30 minutes before my quitting time, I ran across them again. I tried again. Nothing. Tried again...and again. They were the only MM station I heard all day AND I WANTED THEM!

Tried again. Finally they came back to me: SRI OM DUP. What? Dupe? When? No way!

Called again. Same response. I sent back "NO NO NO DUP". They came back and apologized and gave me the exchange, which I already knew of course since I had listened to them all day! That was the highlight of my QRPTTF 2000 contest.

Thirty minutes to pack up and start back down. Saw 2 bear! Well, okay, maybe that was the highlight of my trip. Or maybe the whole day was the

highlight of the week! Yeah, that's the ticket!

John came back over for breakfast on Sunday morning and by 10:30 am we were gone, the memories still playing in my mind.

I have to say one thing: it sure was a lot of fun sharing the weekend with John. A real nice guy.

I will be up at Stokes State Forest over Memorial Day with my Tech Plus daughter Ashley, KC2GDT. She just operated her first QRPTTF and high-fived me after each contact. We'll be operating CQ WW WPX on May 27 from the tent.

Thanks to everyone for a great contest.

72,  
Mike, KF2EW

---

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<http://dl.www.juno.com/get/tagj>.

---

Date: Fri, 5 May 2000 06:47:56 -0400  
From: wb2vuo@juno.com  
To: qrp-1@lehigh.edu  
Subject: [69457] Preparing to Build 2N2/40  
Message-ID: <20000505.064758.-125099.0.wb2vuo@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

After finishing Steve, WS2F's NorCal-20, I have the urge (A strong one) to build a 2N2/40. I took the scale alyout for the pad and scanned it to make a "work copy", then had the thought that I could print it 1:1 if I only knew how many pixels in a .bmp image made up 1 inch.

Fortunately, Microsoft actually has that information, and even have it where it can be found! The figure is 120 pixels/inch. I took my scanned image, trimmed the rest of the page out with PhotoSuite and then scaled the image to 840 x 600 pixels.

I ran the print routine, and it's so close to 7" x 5" that I can't see any error with my "Standard" ruler.

Seeing that it's going to be in the mid-80's this weekend out here in the

Swamp, it sounds like a perfect time to retire to the cool of the basement and cut PCB pads.

Now, who had the parts kits, matched crystals, metal 2N2222's and so on. I didn't keep the posts. I have not had a chance to check out K8IQY's site yet, so if it is there, pardon me for asking.

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp  
VP & FD'00 Chairman, Brockport Amateur Radio Klub & SOC # 119  
My night light runs more power than my Rig!!!  
Replies off-list to: wb2vuo@arrl.net

-----  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 05 May 2000 08:10:44 -0400 (EDT)  
From: "John L. Sielke" <n4js@pobox.com>  
To: qrp-l@lehigh.edu  
Subject: [69458] QRPTTF Report  
Message-ID: <XFMail.000505081044.n4js@pobox.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
MIME-Version: 1.0

>From the banks of the mighty Delaware Bay, and the shadow of East Point  
Lighthouse beeped forth the signal of N4JS and his trusty K2 on April 29.  
Unfortunately, I had not gotten the boat in the water yet, so had to settle for  
OC category.

TOTAL QS0 POINTS 393 X 20 spc X 4 (OC LOCATION) = 30,440

Used just 20, 15 and just 2 contacts on 10 (would have had more, but had a  
little rig problem on that band). Antenna was trusty TEXAS Bugcatcher on ROOF of  
Explorer.

---

/ \ / \ / \ / \ John L. Sielke n4js@pobox.com n4js@qsl.net  
( N )( 4 )( J )( S ) NJ Grid:FM29LN <http://www.qsl.net/n4js>  
\\_ / \\_ / \\_ / \\_ / NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86

G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781

-----  
Date: Fri, 5 May 2000 07:04:57 -0500  
From: "John Burnley" <burnleyia@home.com>  
To: <qrp-l@lehigh.edu>  
Subject: [69459] OT: Tulsa area QRP'ers?  
Message-ID: <000f01bfb68a\$21f4d9e0\$1b790818@c149552-a.west1.ia.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'm looking for any qrp'ers in the Tulsa, OK area.  
Please email me directly. Thanks in advance.

72, John NU0V

-----  
Date: Thu, 04 May 2000 15:36:22 -0400  
From: "Edward A Kwik jr" <eakwikjr@hti.com>  
To: QRP-L Discussion <qrp-l@Lehigh.EDU>  
Subject: [69460] Michigan QRP Club Net  
Message-ID: <3911D136.27E188E5@hti.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

We had three check ins to the net this week. Conditions were good.

K8CV Walt  
W8CCY Larry  
KG9H Frank

There was some QRM on frequency for a while but it did not stay long.  
Both Walt and Larry were using K2's.

The net meets every Tuesday night at 9:00 PM ( that is 0100 UTC on  
Wednesdays ) at 3.535 MHz. NCS is AB8DF, Ed, Waterford, MI

72's



-----  
Date: Fri, 05 May 2000 05:51:05 -0700  
From: Thomas Kuehl <ac7a@gci-net.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [69461] ZM-2 in Larger Enclosure - Sold  
Message-ID: <3912C3B9.E999C342@gci-net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Many thanks to all who responded. The ZM-2 in the larger enclosure has been sold.

Regards, Thomas - AC7A (Tucson)

-----  
Date: Fri, 05 May 2000 06:01:05 -0700  
From: Bob Hightower <nk7m@extremezone.com>  
To: qrp-1@lehigh.edu  
Cc: hwaa@worldnet.att.net  
Subject: [69462] Callbooks  
Message-ID: <200005051259.FAA14559@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I'm looking for callbooks from 1964 to 1967, so a friend can verify his old call sign K7UJZ. If anyone has one of these books, and can copy the page with that call on it, please reply (off list). He is trying to verify his old callsign for an upgrade.

Thanks.

Bob Hightower NK7M  
Chandler, AZ  
SOC #20

<http://www.extremezone.com/~nk7m>

-----  
Date: Fri, 5 May 2000 08:28:52 -0500

From: "Frank Krozel" <frank@electronicinstrument.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <eakwikjr@hti.com>  
Cc: "Eric Swartz WA6HHQ - Elecraft" <eric@elecraft.com>, "Wayne Burdick"  
<n6kr@elecraft.com>  
Subject: [69463] Re: Michigan QRP Club Net  
Message-ID: <000f01bfb695\$dc3e0e60\$83a8aec7@kg9h>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi all:

KG9H ( Frank) was also operating a K2, S/N 906!

Does this now mean a MI-QRP-K2 net??

Frank KG9H

S/N 906

----- Original Message -----

From: Edward A Kwik jr <eakwikjr@hti.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Thursday, May 04, 2000 2:36 PM  
Subject: Michigan QRP Club Net

> We had three check ins to the net this week. Conditions were good.  
>  
> K8CV Walt  
> W8CCY Larry  
> KG9H Frank  
>  
> There was some QRM on frequency for a while but it did not stay long.  
> Both Walt and Larry were using K2's.  
>  
> The net meets every Tuesday night at 9:00 PM ( that is 0100 UTC on  
> Wednesdays ) at 3.535 MHz. NCS is AB8DF, Ed, Waterford, MI  
>  
> 72's  
>

-----

Date: Fri, 05 May 2000 09:29:47 -0400  
From: Michael C Boatright <ko4wx@mindspring.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, NOGAQRP  
<nogaqrp@qth.net>  
Subject: [69464] QRPTTF - KF2EW  
Message-ID: <3912CCCB.72DECB40@mindspring.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

David,

Thanks for your tenacity. Sometimes in a contest, you miss the other guy QSL'ing your exchange. We had you in the log at:

20 1758 KF2EW 559 GA MM 559 NJ WT

Thanks for hanging in there though! I'll tell you what, a K2 into a 500' piece of wire 40' in the air is formidable! Wow!

72 de Mike, K04WX

--

Mike Boatright, K04WX  
Assistant Section Emergency Coordinator,  
GA Section Amateur Radio Emergency Service

A rock pile ceases to be a rock pile the moment a single man contemplates it, bearing within him the image of a cathedral.  
Antoine de Saint-Exupery

-----

Date: Fri, 5 May 2000 07:15:32 -0700  
From: "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>  
To: <n5zgt@swcp.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [69465] Re: Still more on GPS sensitivity  
Message-ID: <010101bfb69c\$602fc500\$6a0aa8c0@continuuus.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This makes no sense whatsoever. Just what is DGPS transmitting? The ionospheric and multipath corrections from its location? Combine that with different ionosphereic and multipath errors from your location and you have doubled the error!

- 1) DGPS station get a slightly off reading based on multipath/ionosphereic (MI from now on)
- 2) DGPS station corrects for MI error (thinking it was SA error). MI deviation will change all the time

3) DGPS station transmits the MI correction for itself which is only good for itself.  
4) DGPS enabled user gets a reading from his GPS which has its own MI error  
5) DGPS enabled user receives DGPS corrections (which are actually the MI corrections for the location of the DGPS station and therefore irrelevant to the DGPS enabled user

This cannot possibly be more accurate. Please explain to me how DGPS can be more accurate in light of SA being turned off.

Barry

PS: My GPS is giving me 2-3 meter accuracy right now.

----- Original Message -----

From: Brian P. Milesosky <n5zgt@swcp.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, May 04, 2000 6:25 AM

Subject: Re: Still more on GPS sensitivity

> Hi All,

>

> BTW, I'm posting this reply on the list, too, for anyone who might also

> be wondering, since this question is being asked quite a bit by GPS users.

> Please excuse my OT reply.

>

> Your friend is incorrect. Despite Selective Availability being turned off, differential GPS (DGPS) will still give him much more accuracy (around

> 1-5 meters) -- the most accurate GPS position one can get (unless one averages for a long period of time), even more accurate than the P-code receivers the military has used. DGPS was a small reason why SA was turned

> off, because it pretty much got around SA all together to an extent. DGPS beacons are placed around the country (more near waterways and coasts for ships, but more and more are finding themselves inland, even in places like

> New Mexico.) The beacon is at the location of a known point (its \*exact\* long/lat is known) and the GPS with the DGPS receiver picks up that signal and uses it to correct itself.

>

> Since SA has been turned off, the main errors now are created by the ionosphere and any multipath. Having the beacon on another frequency at a known point helps cure this natural problem, thus giving you more

accuracy.

>

> Was he had? Well, it depends on if your friend needs 1-5 meter  
> accuracy. If he does, that's great, and he's doing better with his GPS  
than  
> the rest of us. If he doesn't, then perhaps his \$120 GPS that provides  
> 10-20 meter accuracy now that SA is off will suit him and he might want to  
> return the DGPS.

>

> 72,  
> Brian, N5ZGT  
> Albuquerque, NM

>

> ----- Original Message -----

> From: John Nall <nally@talstar.com>

> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

> Sent: Thursday, May 04, 2000 5:51 AM

> Subject: Still more on GPS sensitivity

>

>

> > A friend of mine recently bought a "differential GPS" which would  
> > allow him to have more accuracy than the rest of us get. It has  
> > a separate receiver which picks up a signal from a land station  
> > which supposedly compensates for the deliberate inaccuracy  
> > which was there before they turned that "feature" off.

> >

> > Now that they have turned S/A off, he feels like he has been had,  
> > and called the place he bought it from to complain.

> >

> > Anyway, here is a portion of a note I got from him:

> >

> > "I'll be back Sunday aft. I guess you heard about the military  
> switching

> > selective availability off. Great. I just shelled out nearly \$700 on  
a

> > machine that technically is no better than a hand-held GPS you could  
> buy

> > at

> > Walmart for \$120. I called Si-Tex in Clearwater and they told me I  
> would

> > still get a better, more accurate fix with a differential signal. I  
> told

> > 'em that sounded like bullshit to me. If s/a is turned off, what the  
> > hell

> > is a diff. signal going to correct??"

> >

> > Does anyone know if that is correct? That is, that it is still going  
to

> be  
> > more  
> > accurate with the differential signal? Does not sound logical to me.  
> >  
> > John WB4LOQ  
> > .  
> >  
> >  
> >  
> >  
> >  
> >  
> >  
> >  
>  
>

-----  
Date: Fri, 05 May 2000 10:21:09 -0400  
From: Ken Newman <N2CQ@citnet.com>  
To: QRP-L@lehigh.edu, njqrp@njqrp.org  
Subject: [69466] CONTEST: QRP Calendar - This Weekend  
Message-ID: <3.0.6.32.20000505102109.008df400@mail.citnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

~~~~~  
QRP CONTEST CALENDAR

May 6-7, 2000

~~~~~  
MARAC County Hunters Contest (CW/SSB)

May 6 - 0000z to May 7 - 2400z

Rules: <http://home.sol.no/~janalme/htmlrules/marac.html>

~~~~~  
Ten-Ten International Spring QSO Party (CW) ... QRP Category

May 6 - 0001z to May 7 - 2400z

Rules: <http://listserv.lehigh.edu/lists/tenten-1/rules.html>

---

Indiana QSO Party

May 6 - 1400z to May 7 - 2300z

Rules: <http://home.sol.no/~janalme/htmlrules/qsoin.html>

---

Massachusetts QSO Party (All)

May 6 - 1800z to May 7 - 0400z and

May 7 - 1100z to May 7 - 2100z

Rules: <http://www.qsl.net/fara/qsoparty/maqsorules.html>

---

Connecticut QSO Party (Phone/CW/RTTY) ... QRP Category

May 6 - 2000z to May 7 - 0400z

May 7 - 1200z to May 7 - 2000z

Rules: <http://home.sol.no/~janalme/rules/qsoct.txt>  
[http://www.danbury.org/cara/CT\\_QSO\\_Party.html](http://www.danbury.org/cara/CT_QSO_Party.html)

---

ARI International DX Contest (Italian) (CW/SSB/RTTY)  
(Free logging software)

May 6 - 2000z to May 7 - 2000z

Rules: [http://www.kkn.net/~i2uiy/ARI\\_rul\\_dx.html](http://www.kkn.net/~i2uiy/ARI_rul_dx.html)

---

And Later.....

---

Nevada QSO Party (All)

May 13 - 0000z to May 14 - 0600z

Rules: <http://home.sol.no/~janalme/rules/qsonv.txt>

---

Volta WW RTTY Contest

May 13 - 1200z to May 14 - 1200z

Rules: <http://home.sol.no/~janalme/rules/avolta.txt>

~~~~~

Oregon QSO Party (All)

May 13 - 1400z to May 14 - 0400z

Rules: <http://www.sk3bg.se/contest/orqp.htm>

~~~~~

FISTS Spring Sprint (CW) ... QRP Category

May 13 - 1700z to 2100z

Rules: <http://www.fists.org/sprints.html>

~~~~~

CQM International DX Contest (CW/SSB/SSTV) ... QRP Category

May 13 - 2100z to May 14 - 2100z

Rules: [http://www.mai.ru/~crc/cq-m/cqm\\_rul0.txt](http://www.mai.ru/~crc/cq-m/cqm_rul0.txt)

~~~~~

Dayton Hamvention (QRP Event - FDIIM)

May 18-21

Info: <http://www.hamvention.org/>

~~~~~

European Sprint (CW)

May 20 - 1500z to 1859z

Rules: <http://home.sol.no/~janalme/htmlrules/eusprint.html>

~~~~~



Baltic Contest (CW/SSB)

May 20 - 2100z to May 21 - 0200z

Rules: <http://home.sol.no/~janalme/rules/baltic.txt>

~~~~~  
CQWW WPX Contest (CW) ... QRP Category

May 27 - 0000z to May 28 - 2400z

Rules: <http://ourworld.compuserve.com/homepages/n8bjq/2000RULES.htm>

~~~~~  
QRP ARCI Hoot Owl Sprint (CW) ... QRP Contest!

May 28 - 2000 to 2400 (Local Time)

Rules: <http://personal.palouse.net/rfoltz/arci/hoot.htm>

~~~~~  
Michigan QRP Memorial Day Sprint (CW) ... QRP Contest!

May 29 - 2300z to May 30 - 0300z

Rules: <http://www.tir.com/~n8cqa/rules2000.htm>

~~~~~  
72 de

Ken Newman - N2CQ

Woodbury, NJ

N2CQ@ARRL.NET

~~~QRP Contest Calendar~~~

<http://www.njqrp.org/data/contesting.html>

~~~WQ2RP NJQRP Club Station~~~

-----  
Date: Fri, 5 May 2000 08:36:39 -0600 (MDT)

From: "Paul Harden, NA5N" <na5n@rt66.com>

To: Dave Fifield <fifield@pacbell.net>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [69467] Re: Red Hot Radio - New Logo

Message-ID: <Pine.SUN.4.10.10005050829250.14118-100000@shell.rt66.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 6 May 2000, Dave Fifield wrote:

> ... so we decided to redesign the Red Hot Radio logo

> Take a look at it on the Red Hot Radio website  
> and let us know what you think. There's not supposed to be  
> anything mystical or egotistical about it, so don't spend a lot  
> of time looking for hidden meanings!

You mean other than that "I love You" thing you put on the  
subject line? :-) The world's worst virus and the new Red Hot  
Radio logo both showing up on the same day. Am I the only one  
connecting this together? hi.

Nice logo Dave. I like it.

72, Paul NA5N

-----  
Date: Fri, 5 May 2000 08:47:02 -0600  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: "qrp-1" <qrp-1@Lehigh.EDU>  
Subject: [69468] Bench Mercury Paddle in new HRO cat.  
Message-ID: <006001bfb6a0\$ccde3340\$aa101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Got the new HRO cat yesterday. The Bencher/Mercury is now available  
for a mere \$495.

Has anyone seen or played with one of these? I'm interested in how  
well it stacks up to the original Mercury's, as well as paddles like  
the Schurr Profi and other quality paddles.

---

72/3 Rod, N0RC -- Fort Collins, CO

-----  
Date: Fri, 5 May 2000 08:41:25 -0600  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: "qrp-1" <qrp-1@Lehigh.EDU>  
Subject: [69469] Nov SS--results available  
Message-ID: <005f01bfb6a0\$cb95e0\$aa101004@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

For those who are ARRL members, the Nov SS results are now available  
on the ARRL Members only Site.

---  
72/3 Rod, N0RC -- Fort Collins, CO

-----  
Date: Fri, 5 May 2000 09:44:43 -0500  
From: "Dan W. Dooley" <dandooley@pipeline.com>  
To: <rong@slip.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [69470] Re: 40m dipoles  
Message-ID: <001d01bfb6a0\$767eb060\$05987b7b@CSS0048.bergenbrunswick.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Before I installed my multiband vertical, I had a 40 meter dipole in an  
inverted Vee configuration with the apex at about 25 ft. One end sloped  
down across the back yard at roughly a 45 deg. angle. The other leg did not  
slop down so far. It was tied off on the roof.

Anyhow, surprising to me and contraire to the notion that for an antenna so  
low, you'll only get regional coverage, I did on numerous occasions hear and  
make contact with stations up into the upper mid-west (IL, IN, etc.) This  
was from my location in North Texas.

So, do what you have to do to get something up. The results may surprise  
you. If you can get some height, then the overall "length" as for as yard  
distance will shorten by using an inverted Vee.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku

e-mail to: dandooley@pipeline.com  
May Goddes love blest ye alle  
SOC#198  
"Ancient Pistol, I do partly understand your meaning."

-----Original Message-----

From: Ron Giuntini <rong@slip.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Thursday, May 04, 2000 10:02 PM  
Subject: 40m dipoles

>I don't have enough room for a full length forty meter dipole. Was  
thinking  
>about a trapped dipole without a tuner. Anybody have experience with these  
>on low power? Or how about folding the ends of the full length dipole? I  
am  
>thinking about avoiding a tuner, but don't have alot of space..I always  
>liked dipoles or inverted v's, and don't have much experience with  
>verticals..  
>Ron Giuntini  
>KB6GK

-----  
Date: Fri, 5 May 2000 07:51:44 -0700 (PDT)  
From: Duane Alles <w9zm@yahoo.com>  
To: qrp-1@Lehigh.EDU  
Subject: [69471] Headset  
Message-ID: <20000505145144.25047.qmail@web514.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi All,

I'm looking for good headset for CW that isn't super  
expensive, under \$100. The headsets I've gotten from  
RS have cracked just above the earpiece. Any ideas are  
appreciated.

Thanks in advance,

73,  
Duane

-----  
Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.

<http://im.yahoo.com/>

-----  
Date: Fri, 05 May 2000 11:11:22 -0400

From: "Jerry Henshaw" <jhenshaw@bellsouth.net>

To: qrp-1@Lehigh.EDU

Subject: [69472] Pictures of my SMD Hold Down Jig

Message-ID: <200005051451.KAA13998@websmtp1.bellsouth.bigfoot.com>

Hi Gang,

Jim just posted pictures of my SMD Hold  
Down Jig on his webpage. Look under the  
SMT section.

Please go to Jim's webpage instead of asking  
me to send images via email.

Jim's (N5IB) URL is <http://www.qsl.net/n5ib>

I used a piece of "P" profile self-adhesive  
weather stripping to keep the jig from moving  
around during soldering.

Good luck with SMD's and see you at Dayton.

Jerry Henshaw

KR5L

-----  
Access your e-mail anywhere, at any time.

Get your FREE BellSouth Web Mail account today!

<http://webmail.bellsouth.net>  
-----

-----  
Date: Fri, 5 May 2000 08:12:28 -0700 (PDT)

From: Monte Stark <ku7y@dri.edu>

To: Low Power Amateur Radio <qrp-1@Lehigh.EDU>  
Subject: [69473] Mail outage  
Message-ID: <Pine.GS0.4.10.10005050809230.13615-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

I just found out that we lost our mail server yesterday for about 6 hours. (Was a disk crash and had nothing to do with the ILOVEYOU thing!).

Anyway, I just wanted to let everyone know that if any of you sent me email yesterday there is a very good chance that it was lost when the disk crashed.

If so, please resend and I'll respond!

Thanks for the BW.

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....  
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....  
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

-----

Date: Fri, 05 May 2000 08:28:08 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: "WB6FLD (E-mail)" <wb6fld@arrl.net>, Low Power Amateru Radio Discussion <qrp-1@lehigh.edu>  
Subject: [69474] Re: QRP TTF 2000 pix on my page.  
Message-ID: <3912E888.F7BE5E47@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks for the update Rick. Wow, that 8020 sounds like you saved it/them from abusive owners!!

I'm thinking we should set up an action group.  
Hams Against Abused Rigs.

Haar! Haar! Haar!

-Ed

"WB6FLD (E-mail)" wrote:

>

> Hey Ed,

>

> Just wanted to tell you I've updated my page a bit. I added a link to  
> pictures from our recent outing to Lake Cunningham for QRP TTF.

>

> I have a new rig to check into WSN with now. I finally got the 40m nw8020  
> rig I bought on e-bay working. I had bought a batch of five 'finished' but  
> not working of these rigs. So far I have the 80m and 40m repaired to a  
> useful state, and have a 20m and two 30m ones to go. The 20m rx bandpass  
> filter is my project right now. There were alot of backwards and wrong  
> value parts, as well as some, uhh..hmm... 'creative' substitutions. ;-)

>

> Take care.

>

> '73

> -Rick

> WB6FLD

> wb6fld@arrl.net

> www.qsl.net/wb6fld

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068

<http://www.qsl.net/we6w> Santa Rosa, CA

My 2 pennies worth is just common cents.

-----  
Date: Fri, 5 May 2000 11:28:21 EDT

From: N10DL@aol.com

To: rong@slip.net, qrp-1@lehigh.edu

Subject: [69475] Re: 40m dipoles

Message-ID: <38.586168f.26444295@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

When I lived in a Townhouse, I put up a G5RV,Jr (36Ft.) in my attic and had it running along the peak of the roof until it hit the walls. at that point I let the ends drop down. I worked all over the world with that setup. That antenna is now hung along the rear of my new home just under the overhang. One end is running to a tree with a diving weight tied to a rope to take care of the tree swing. I also now have up a full size Windom antenna and a R7 vertical in the woods. The G5RV,Jr is at right angles to the Windom. I can hear a difference on some QSO's. Hope this helps.

Aron

N10DL  
Bedford, NH  
QRP-L/#1326 FISTS/#4110 SOC/#10 G-QRP/#9946

-----  
Date: Fri, 05 May 2000 08:45:28 -0700  
From: Bruce Grubbs N7CEE <n7ceeqrp@earthlink.net>  
To: qrp-1@LeHigh.edu  
Subject: [69476] QRPTTF: W7TAO  
Message-ID: <4.3.1.0.20000505084004.01df2df0@earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

W7TAO (N7CEE and K7BUG) set up near Upper Lake Mary, southeast of Flagstaff, suing my K2 with ATU, 40m vertical on a DK9SQ mast, and a 40m delta loop hung from the pines. We worked 53 stations for a preliminary score of 74970 in category WT.

It was very windy with justs over 30 mph by the end of the 'test. So it's just as well our plans to borrow a boat fell through. Luckily the DK9SQ mast saved its trick of coming loose at the joints and auto-retracting itself until I was taking it down! Both antennas seemed to work very well, pulling sigs right out of the noise. The K2 ATU was a joy.- being able to QSY instantly to see if 10m was open was a great help.

72  
Bruce N7CEE

-----  
Bruce Grubbs, n7ceeqrp@earthlink.net  
-----

-----  
Date: Fri, 5 May 2000 11:16:51 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: bshort@speedchoice.com  
Cc: qrp-1@lehigh.edu  
Subject: [69477] Re: Dual Voltage Power Supply Metering?  
Message-ID: <200005051555.LAA10173@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT



> I am now looking for suggestions for (inexpensively) adding  
> metering to this supply, for example 3-digit digital readout  
> XX.X or -XX.X etc of voltage (or possibly current also).  
>

Brain,

Sounds like it will be a handy supply.

Marlin P. Jones (www.mpja.com) has 3 /12 digit panel meters (200 mv FS) for \$7.95. Please note that these meters require an isolated 9V supply to work. ie, the meter supply has to be isolated from the voltage it's measuring. For a little more money, (\$13.50) they also have a meter that runs on +5 volts and can have a common power ground and (-) input connection.

Current measurement isn't too hard. A small resistor (say .1 ohms) connected in the ground return can be used to sense the current, then one of these meters to measure the voltage across it. In the case of a 0.1 ohm resistor, 1 amp = 100 mv.

This resistor could also be used as part of a current limiting circuit, to protect the supply.

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Fri, 5 May 2000 10:51:03 est  
From: brian@iquest.net  
To: "Dan W. Dooley" <dandooley@pipeline.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Message-ID: <3912ede7.131a.0@iquest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

My attic dipoles are up about 25 feet or so. Up in the peak of my roof. On 40, with my NC40A and 5 Watt Scout, I have WAS and gotten as far south as Belize. The 20M wire fit perfectly, the 40m wire is turned 90 degrees on the ends by about 8 feet on each side. There are several attic dipoles on the list that have had even better results.

I am however, making it a priority to get some sort of antenna installed outside. I'm thinking maybe a multi band vertical attached to my chimney. With my current setup, I just don't hear much DX. I might even try a loop and install it around

the perimeter of my house...just to see what it'll do.

73 de KB9BVN

FISTS 5695 ARCI 10223

>Before I installed my multiband vertical, I had a 40 meter dipole in an  
>inverted Vee configuration with the apex at about 25 ft. One end sloped  
>down across the back yard at roughly a 45 deg. angle. The other leg did not

>slop down so far. It was tied off on the roof.

>

>Anyhow, surprising to me and contraire to the notion that for an antenna so

>low, you'll only get regional coverage, I did on numerous occasions hear and

>make contact with stations up into the upper mid-west (IL, IN, etc.) This

>was from my location in North Texas.

>

>So, do what you have to do to get something up. The results may surprise  
>you. If you can get some height, then the overall "length" as for as yard

>distance will shorten by using an inverted Vee.

>

>

>Dan W. Dooley WB5TKA Bedford, Texas EM12ku

> e-mail to: dandooley@pipeline.com

>May Goddes love blest ye alle

>SOC#198

>"Ancient Pistol, I do partly understand your meaning."

>

>

>-----Original Message-----

>From: Ron Giuntini <rong@slip.net>

>To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

>Date: Thursday, May 04, 2000 10:02 PM

>Subject: 40m dipoles

>

>

>>I don't have enough room for a full length forty meter dipole. Was

>thinking

>>about a trapped dipole without a tuner. Anybody have experience with these

>>on low power? Or how about folding the ends of the full length dipole? I

>am  
>>thinking about avoiding a tuner, but don't have alot of space..I always  
>>liked dipoles or inverted v's, and don't have much experience with  
>>verticals..  
>>Ron Giuntini  
>>KB6GK  
>  
>  
>  
>

-----  
Date: Fri, 5 May 2000 12:05:32 -0400  
From: "Ed Tanton" <n4xy@att.net>  
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [69479] RE: Dual Voltage Power Supply Metering?  
Message-ID: <CKEGICNFDIMCEKEDCEHFKEKLCEAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Also, if you look through the MPJ catalog/website or Hosfelt Electronics'  
catalog/website (<http://www.hosfelt.com/>) you will find a nice supply of  
small, inexpensive DC-DC converters (typically < \$10)-look for one  
mentioning isolation from the supply. You only have to isolate the current  
'meter'. The total cost with the DC-DC won't be cheaper than the built-in  
units, but the styles of those are somewhat limited, and this way you can  
use whichever one you like. By the way, these 'meters' are quite the  
bargain, Digikey's prices on similar units is \$40 and up.

-----  
Date: Fri, 5 May 2000 12:16:38 EDT  
From: Ab5xq@aol.com  
To: qrp-l@lehigh.edu  
Subject: [69480] SWR Meter  
Message-ID: <be.37488e4.26444de6@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Can anyone in the group point me to a web page or publication that has info  
on building a simple swr indicator with LED(s)? I believe I recently ran

across one, but for the life of me, I cannot remember where.

Tks in advance, 73, Bill, AB5XQ

-----  
Date: Fri, 5 May 2000 12:17:56 -0400 (EDT)  
From: JOHN FISHER <ve7fdg@mad.scientist.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [69481] HEATH DX 60  
Message-ID: <380715081.957543476578.JavaMail.root@web301-mc.mail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am in toronto for 2 weeks and am looking for a HEATH DX 60. I have the matching receiver and need the DX 60 for a set. please email direct thank you john  
ve7fdg@mad.scientist.com  
2137 duggan rd  
nanaimo bc V9S 5N9  
canada

-----  
FREE Personalized Email at Mail.com  
Sign up at <http://www.mail.com/?sr=signup>

-----  
Date: Fri, 5 May 2000 12:33:18 -0400  
From: "Ed Tanton" <n4xy@att.net>  
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>  
Subject: [69482] Speaking of BG-Micro  
Message-ID: <CKEGICNFDIMCEKEDCEHFAEKOCEAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

After the recent reference to BG Micro I dropped by for a visit and found the following great deal:

QUOTE:

brand new 12 volt/4.5 amp hour rechargeable battery and carrying bag for a super low price. The bags are great for storage or to carry an extra battery on your belt, camera, etc. Battery measures 3-1/2"x2-11/16"x4". Popular size. Brand new rechargeable 12 volt 4.5 amp hour battery and case.....\$6.95

UNQUOTE

Note the carrying case! The ad is on page: <http://www.bgmicro.com/lmad.htm>  
about 7/8 of the way down the page.

73 Ed Tanton <n4xy@arrl.net> K2# 0057 (FT)

website: <http://www.qsl.net/n4xy/>

-----  
Date: Fri, 5 May 2000 12:42:11 EDT  
From: Shepherd@aol.com  
To: qrp-l@lehigh.edu  
Subject: [69483] Re: Nov SS--results available  
Message-ID: <28.5301df1.264453e3@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I came in 4/8 in Ohio.  
Some pretty good looking scores in the "Q" catagory.

In a message dated Fri, 5 May 2000 10:51:44 AM Eastern Daylight Time, "Rod, N0RC"  
<n0rc@qsl.net> writes:

<< For those who are ARRL members, the Nov SS results are now available  
on the ARRL Members only Site.

---  
72/3 Rod, N0RC -- Fort Collins, CO

>>

-----  
Date: Fri, 05 May 2000 17:45:55 +0000  
From: Brian Short <bshort@speedchoice.com>  
To: qrp-l@lehigh.edu  
Subject: [69484] Summary: Dual Voltage Power Supply Metering  
Message-ID: <4.1.20000505173619.00d628a0@mail.earthlink.net>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

One person suggested using only analog meters as he had trouble with low-level noise from a digital meter.

Several people suggested vendors for 3 1/2 digit panel meters (see below). A couple of these vendors were new to me. I personally don't care for Jameco at all. The winner was Marlin P. Jones and I sent them some of my money.

Thanks, Brian

--

Marlin P. Jones ([www.mpja.com](http://www.mpja.com)) has 3 1/2 digit panel meters (200 mv FS) for \$7.95. Please note that these meters require an isolated 9V supply to work. ie, the meter supply has to be isolated from the voltage it's measuring. For a little more money, (\$13.50) they also have a meter that runs on +5 volts and can have a common power ground and (-) input connection.

C&S Sales had 3-1/2 digit LED voltmeter displays for about \$10. Their P/N PM-129B is \$9.95. 3-1/2 digit, 0.56" height, red LED, 200mv FS, 1% accuracy, auto polarity, auto zero, DP selectable, runs off of 5V, meter size 2.5 x 2.75 x .75, bezel size 2.75 x 1.25 x .25  
<http://www.cs-sales.com>

Also, if you look through the MPJ catalog/website or Hosfelt Electronics' catalog/website (<http://www.hosfelt.com/>) you will find a nice supply of small, inexpensive DC-DC converters (typically < \$10)-look for one mentioning isolation from the supply. You only have to isolate the current 'meter'. The total cost with the DC-DC won't be cheaper than the built-in units, but the styles of those are somewhat limited, and this way you can use whichever one you like. By the way, these 'meters' are quite the bargain, Digikey's prices on similar units is \$40 and up.

JAMECO 0.6 INCH HIGH 3.5 DIGIT LCD DIGITAL  
PANEL METERS  
PAGE 30 in catalog  
1 800 831 4242

--

<mailto:k7on@earthlink.net>

--

-----  
Date: Fri, 05 May 2000 17:49:14 +0000  
From: Brian Short <bshort@speedchoice.com>  
To: qrp-1@lehigh.edu  
Subject: [69485] Re: Nov SS--results available  
Message-ID: <4.1.20000505174622.02198290@mail.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Looks like I won 1st Place Arizona Unlimited...  
I was the \*ONLY\* Unlimited entry - is that a  
strategy or what?

BTW, I ran 75-100w (battery power) sorry if  
this is too far off topic :)

At 04:42 PM 5/5/00 , you wrote:

>I came in 4/8 in Ohio.

>Some pretty good looking scores in the "Q" catagory.

>

><< For those who are ARRL members, the Nov SS results are now available  
>on the ARRL Members only Site.

--

mailto:k7on@earthlink.net

--

-----  
Date: Fri, 5 May 2000 12:49:51 -0500 (EST)  
From: igeq100@iupui.edu  
To: Brian Short <bshort@speedchoice.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [69486] Re: Dual Voltage Power Supply Metering?  
Message-ID: <Pine.HPP.3.96.1000505124413.23709B-100000@ruby.iupui.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Brian -

All Electronics sells a number of 3-digit voltmeters at around  
\$10, give or take a few bucks. I've seen the same brand elsewhere. Be  
careful, though. Some of them require an isolated power supply. That is,  
they can't have a common ground with the circuit being measured and their

own supply. Look for the kind that says specifically that it can monitor its own power supply. I have used a number of these, both LED and LCD, and have found them to be very convenient and reliable. (I believe the model number is PM-129, but I am not sure.)

Usual disclaimers apply.

73,

Richard Meiss, WB9LPU

On Fri, 5 May 2000, Brian Short wrote:

>  
> I recently finished a small power supply for experimenting  
> with various circuits (a "bench" supply).  
>  
> It has dual voltages, individually controllable (1.2 to 21.5 and  
> -1.2 to -21.5) - as well as +/-12, +/-5, and +/-23 unregulated.  
> Not a high current supply, just handy - I hope.  
>  
> Anyway, I left sufficient (I hope) space on the front panel  
> for metering of the two variable voltages.  
>  
> I am now looking for suggestions for (inexpensively) adding  
> metering to this supply, for example 3-digit digital readout  
> XX.X or -XX.X etc of voltage (or possibly current also).  
>  
> Anyone know of (cheap, simple) 3 digit voltage meters that  
> might be added to this project?  
>  
> Reply any way you wish, I'll be happy just to get some ideas.  
>  
> Thanks, Brian  
>  
> --  
> <mailto:k7on@earthlink.net>  
> --  
>

-----  
Date: Fri, 05 May 2000 12:06:12 -0600  
From: Bruce Kizerian <kizerian@ced.utah.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [69487] 1 volt circuit expert needed



Message-ID: <39130D93.A8E3908F@ced.utah.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

A while back there was some talk about a 1 volt circuit contest. Several of you actually built some pretty neat stuff and got close to having an entry. I could use your help selecting a good high gain transistor for a 3 volt circuit I am working on. Frequency range is around 1 MHz. The more gain the better. Any good ideas?

Thanks in advance

Bruce kk7zz

-----  
Date: Fri, 5 May 2000 14:13:55 -0400  
From: John AE5X <ae5x@juno.com>  
To: n4xy@att.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [69488] Re: Laminated Panels  
Message-ID: <20000505.141358.14118.0.ae5x@juno.com>

Was this it?

<http://www.mich.com/~bjlavoie/decals.html>

John Harper, AE5X  
Ex: AA5YX, KA5BBL, VQ9BL  
HW-9, OHR-100A/20, NC40A, SST/30, SST/40, DSW/20  
Outdoor QRP <http://www.qsl.net/ae5x>

On Thu, 4 May 2000 21:12:37 -0400 "Ed Tanton" <n4xy@att.net> writes:  
>Does anyone recall the URL/email reference I put out a couple of  
>months ago  
>about really nice, laminated, multilayer applique panels for  
>homebrew/etc.  
>projects? When my OS went away, taking all my emails with it, that  
>went with  
>it.  
>  
>73 Ed Tanton <n4xy@arrl.net>  
>  
>website: <http://www.qsl.net/n4xy/>

>

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 05 May 2000 11:29:20 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>, Randy Foltz  
<rfoltz@turbonet.com>  
Subject: [69489] QRP ARCI QSO Party Log -- LOST...  
Message-ID: <39131300.9198FCBA@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Don't let this happen to you :)

I had it all by the computer. 5 pages,  
each about QSL card sized. I computed the  
score and posted to the "High Claimed"  
page Randy is running....

But the arm injury had me tentative on  
typing it all in so I just kept it aside  
until the hands felt better..... Now I  
can't find them...

Oh woe is me.... So, my apologies.

-Ed 72

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068  
<http://www.qsl.net/we6w> Santa Rosa, CA  
My 2 pennies worth is just common cents.

-----  
Date: Fri, 05 May 2000 11:35:54 PDT  
From: "Doug Hendricks" <ki6ds@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [69490] NorCal: Kitting Party Saturday  
Message-ID: <20000505183554.69912.qmail@hotmail.com>  
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

Guys, we are having an SMK-1 kitting party Saturday, tomorrow at 8:30 AM in Dos Palos. If you would like to help for a few hours, I am buying lunch!! Grin. We have 2 others coming Saturday and would like to have about 6 more. Please email me if you can help out. Thanks, Doug

-----  
Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

-----  
Date: Fri, 5 May 2000 14:40:17 EDT  
From: Ab5xq@aol.com  
To: qrp-l@lehigh.edu  
Subject: [69491] RE: SWR Meter  
Message-ID: <98.4a7d514.26446f91@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

What a super group, I posted my question before going to lunch and then when I returned to my office, I had many answers. I have found the article I was looking for and some others that look very interesting. This is great! Thanks to all for your help now I can "melt some solder" this weekend.

72, Bill, AB5XQ

-----  
Date: Fri, 5 May 2000 14:09:45 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [69492] Re: Still more on GPS sensitivity  
Message-ID: <200005051848.0AA27976@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> This makes no sense whatsoever. Just what is DGPS transmitting? The

>From what I understand (going by what I remember of an article I read a while back) the fixed site "knows" its exact location. It compares its known location to that which it receives via the satellites and then sends a "correction" based on the difference. (it must be doing this on a continuous basis) Since this site services DGPS receivers in

its own general geographic area, chances are errors due to "natural" causes will be very similar for all receivers in its service area, so those errors will also be greatly reduced. Of course, the closer you are to the fixed station, the greater the accuracy.

But judging from the number of people that have GPS and still get lost in the woods around here, just knowing where you are isn't of much use if you forgot to bring a map to see where you are!

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Fri, 5 May 2000 14:56:36 -0400  
From: Stanley A McIntosh <mcintos@basf-corp.com>  
To: qrp-1@Lehigh.EDU  
Subject: [69493] Stockton SWR Meter Circuit  
Message-ID: <852568D6.006767A8.00@basf-corp-gw01.basf-corp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

I'd appreciate knowing if I'm making a mistake here, and I may be asking too late. Last night, I wrapped up a Stockton-type wattmeter, and my stream-of-consciousness when monkeying with the circuit went something like this:

- 1) Circuit calls for 1 mH between rectification and the potentiometer.=
- 2) Junkbox has 470 uH inductors, which would probably do just as well,= but, since I have enough, may as well use two in series.
- 3) With two inductors in series on a ground-planed board, might be good to have a center-support.
- 4) A capacitor would be an open circuit for the rectified DC, support= the inductor-inductor junction, and provide some dampening.
- 5) Here's a scrap modem with two 220 uF caps.

At the time, I thought that, with a disc cap (0.01 uF) at the rectifier= anode, that that cap would be the limiting reactant. It seems to be so, to at=

least  
some degree, since the meter response is certainly dampened. My questions are:

1) Will having these contextually-large caps in place cause any potential problems? Seems like the electrolytics are 25V. So, if I'm interpreting the rectifier as a peak-reading circuit, then pumping more than about 600 watts through the wattmeter will put the electrolytics at risk. Well, that's one way of limiting operation to qrp :>)

2) How would those of you that are out there and skilled in the art predict that this style wattmeter would work with SSB? On one hand, the needle takes a second or two to drop down after a peak, but it also takes a second or two to come up to it's final resting place. Would this type of dampening give something between an averaging and an SSB effect?

Thanks in advance.

72  
stan  
=

-----  
Date: Fri, 5 May 2000 14:01:01 -0500  
From: Bcieslak@ra.rockwell.com  
To: qrp-L@lehigh.edu  
Subject: [69494] OT: MIR SSTV - What Freqs and Mode?  
Message-ID: <0F1E3975F6.76D9693C-ON862568D6.006839D0@ra.rockwell.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

I recently read an article on the MIR send SSTV pix back to earth. It is in a rather favorable position these days to view visually from my QTH so I am thinking that I should hear them just as well.

What Freq and Mode do they use? I suspect 2M FM but not sure.

Brian AE9K

-----  
Date: Fri, 05 May 2000 15:16:16 EDT  
From: n5ib@juno.com  
To: qrp-1@Lehigh.edu  
Subject: [69495] SMK-1 - finding the gremlins  
Message-ID: <20000505.141339.6879.2.N5IB@juno.com>

So far not bad. Audio level is not very high, but I can hear increase in noise when the antenna is connected, and there were lots of signals audible last night, so I decided to try for a QS0.

When I keyed down - no sidetone - then after about a couple of tenths of a second the sidetone appeared. This is repetitive. It takes a brief interval to develop sidetone after each keydown (on a string of dits, only clicks are heard) A check with the scope revealed that rf output was immediate upon key down - nice crisp keying - so it's not a sluggish oscillator. Must still be something in the muting and delay circuit, which may also be involved in the low audio.

Anyone fight this battle yet? I'm investigating, but a trip tonight to watch my son's college baseball team play, and our hamfest (and informal QRP forum) will keep me away from the bench for a bit.

72  
Jim N5IB

-----  
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Try it today - there's no risk! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 5 May 2000 14:18:01 -0500  
From: "Mike Branca" <w3irz@att.net>  
To: <mcintos@basf-corp.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [69496] Re: Stockton SWR Meter Circuit  
Message-ID: <00aa01bfb6c6\$a1e9d7e0\$09014d0c@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

Just use the 470uh rfc's as they will work just fine.

Mike W3IRZ Conyers, Georgia

----- Original Message -----

From: Stanley A McIntosh <mcintos@basf-corp.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Friday, May 05, 2000 1:56 PM

Subject: Stockton SWR Meter Circuit

I'd appreciate knowing if I'm making a mistake here, and I may be asking too late. Last night, I wrapped up a Stockton-type wattmeter, and my stream-of-consciousness when monkeying with the circuit went something like this:

- 1) Circuit calls for 1 mH between rectification and the potentiometer.
- 2) Junkbox has 470 uH inductors, which would probably do just as well, but, since I have enough, may as well use two in series.
- 3) With two inductors in series on a ground-planed board, might be good to have a center-support.
- 4) A capacitor would be an open circuit for the rectified DC, support the inductor-inductor junction, and provide some dampening.
- 5) Here's a scrap modem with two 220 uF caps.

At the time, I thought that, with a disc cap (0.01 uF) at the rectifier anode, that that cap would be the limiting reactant. It seems to be so, to at least some degree, since the meter response is certainly dampened. My questions are:

- 1) Will having these contextually-large caps in place cause any potential problems? Seems like the electrolytics are 25V. So, if I'm interpreting the rectifier as a peak-reading circuit, then pumping more than about 6 watts through the wattmeter will put the electrolytics at risk. Well, that's one way of limiting operation to qrp :>)
- 2) How would those of you that are out there and skilled in the art predict that this style wattmeter would work with SSB? On one hand, the needle takes a second or two to drop down after a peak, but it also takes a second or two to come up to it's final resting place. Would this type of dampening give

something between an averaging and an SSB effect?

Thanks in advance.

72  
stan

-----  
Date: Fri, 05 May 2000 19:42:17 +0100  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "grudin@vdbbs.com" <grudin@vdbbs.com>  
Cc: "qrp" <qrp-1@lehigh.edu>  
Subject: [69497] Re: Anybody want to buy an SMK-1 all put together?  
Message-ID: <200005051941.0AA27945@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

On Thu, 04 May 2000 20:10:53 -0700, Jeff Grudin wrote:

>Guys,  
>  
>Despite asking for help on this list, and specifically from folks I used  
>to think were my friends, I have gotten none. Oh well, that is kinda  
>how my weeks been going.  
>  
>I have built an SMK-1 and it works fine. I have had a QSO with it with  
>a friend, however, I am unable to figure out how to use it in real  
>life. The manual does not really explain it, and I am apparently too  
>dense to figure it out.  
>  
>...  
>--  
>73 de AC6KW <mailto:grudin@vdbbs.com>  
>Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>  
>Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California  
>Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131  
>

Jeff:

Sorry that your frustration boiled over onto the net and that you got no  
satisfactory help.



Let me take a crack at it and see if I can help....

I assume that the problem comes about because of the two different pots to set the frequency....

The SMK-1 is really a separate transmitter and receiver that has T/R switching for the antenna, and muting for the receiver. As far as frequency control goes, they are entirely separate, just like the old time transmitters and receivers.

So here are a couple of plans to deal with this.

1 - Set the TX frequency and then move the RX frequency to be about 700hZ below that. Call CQ.

One way to do this is:

Set the TX freq pot( the rightmost one) to some setting, say all the way clockwise(CW). This is the highest frequency position for the TX. Set the RX pot all the way clockwise. This is the highest frequency position for the RX.

Key the rig into a dummy load or the antenna.

Tune the RX freq pot counter-clockwise(CCW) slowly until you hear your signal. It should be the loudest thing you hear. You should initially hear the signal as a high pitched tone which gradually lowers in pitch as you turn the pot CCW. Continue turning the pot CCW until the pitch of the sig goes down so low that you cannot hear it. When the pitch is exactly zero, this is called ZERO BEAT and your RX OSC and TX are exactly on the same frequency. Continue turning the pot CCW and note that the pitch will start coming up in frequency. Stop when the tone is around 700 cycles or so. You will have moved your RX freq from somewhere above the TX freq to a little below it.

Now if when you do this, the pitch of the tone heard starts at some freq (possibly zero) and goes up in frequency, then the upper freq limit of your TX is higher than that of the RX and you need to either move the TX freq down, or operate on the other side, if you really need to TX on that freq.

Unkey your TX.

At this point your TX is tuned to some freq in it's range, and the RX is tuned about 700 cycles below this freq. You are listening on the upper side of your RX freq. People calling you 'on your frequency' can be heard in your receiver.

Call CQ and have a contact. (If the gods are smiling.)

2 - Set the RX to a frequency( say that of a sig you wish to call) and adjust the TX to be about 700 hz above that.

One way to do this is:

Set the RX frequency pot to hear the desired signal, usually on the higher side of the RX frequency. Higher or lower in this context refers to the zero beat (as described above) between the desired sig and your RX OSC, as heard in the phones.

When the freq is clear, key your rig and tune the TX freq pot so that you hear your TX sig at about the same tone and on the 'same side of zero beat' as the desired sig.

Call the station and have a contact. (again if the gods are willing...:-) )

Now a couple of big or BIGGER caveats.

1 - It really doesn't matter which side of zero beat you set your TX or RX in the above procedures, but you should have your TX set on the same side of your RX sig as the incoming sig is, in order for your TX sig to be close to his/her frequency....If you are on the opposite side, and he/she has a rig that doesn't copy both sidebands at once, then they may not hear you, even if the signal is strong. In this case they would be transmitting and listening on one freq, and you would be transmitting about 1.4 khz away. Although you could hear them, their bandwidth might such that they would not hear you.

2 - The frequency range of the TX in the SMK-1 is not as wide as the frequency range of the RX in the SMK-1, so you may hear sigs on frequencies that you cannot transmit on. It would probably be a good idea to mark the RX tune pot in some way so you can see the where the TX freq range is relative to it.

Of course, it is not really necessary to be on the same freq to have a QSO, if you are listening to 'his/her' freq and he/she is listening to yours. For years when people were XTAL controlled they would transmit a L000000000og CQ, then tune the whole band or as much as they wanted to, listening for someone that heard them on their freq, but might have an XTAL on a different freq.

With all of the SMK-1s coming from the same batch of XTALs and other parts, they will pretty much be on the same frequencies.... and the RX is as wide as you can hear....Other rigs will probably have greater range, and some of them you won't be able to work because of your limited freq range....

Hope this may answer more questions for you than it creates....

If you have more questions, I would be happy to try and answer them.

Larry KA5T  
Georgetown, TX

-----  
Date: Fri, 5 May 2000 12:50:40 -0700 (PDT)  
From: "Robert P. Okas" <vintage@best.com>  
To: n5ib@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [69498] Re: SMK-1 - finding the gremlins  
Message-ID: <Pine.BSF.4.21.0005051234460.29753-1000000@shell14.ba.best.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Jim,

My first thought is to clean the board.

Here's what happened to me and how I fixed it. From previous SMT experience, I applied some liquid flux to the IC pads. This definitely makes the solder flow better and makes better connections. While it doesn't hurt, I found it's not really necessary for the L's, R's & C's.

After the unit was assembled, the receiver was dead and the problem was traced to a non-functioning L0. The scope showed an odd, ugly-looking waveform on pin 7 of the SA-612. All resistance measurements checked out, so I cleaned up the board with some spray-type flux remover. That did the trick in my case.

The moral of the story is that flux can become conductive if it traps impurities. Given the close spacing of the components on the board, there are plenty of opportunities for this.

73,  
Bob - WE3CD

On Fri, 5 May 2000 n5ib@juno.com wrote:

> So far not bad. Audio level is not very high, but I can hear increase in

> noise when the antenna is connected, and there were lots of signals  
> audible last night, so I decided to try for a QS0.  
>  
> When I keyed down - no sidetone - then after about a couple of tenths of  
> a second the sidetone appeared. This is repetitive. It take a brief  
> interval to develop sidetone after each keydown (on a string of dits,  
> only clicks are heard) A check with the scope revealed that rf output was  
> immediate upon key down - nice crisp keying - so its not a sluggish  
> oscillator. Must still be something in the muting and delay circuit,  
> which may also be involved in the low audio.  
>  
> Anyone fight this battle yet? I'm investigating, but a trip tonight to  
> watch my son's college baseball team play, and our hamfest (and informal  
> QRP forum) will keep me away from the bench for a bit.  
>  
> 72  
> Jim N5IB  
>  
> -----  
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> <http://dl.www.juno.com/get/tagj>.  
>

-----  
Date: Fri, 05 May 2000 15:59:17 EDT  
From: n5ib@juno.com  
To: qrp-1@Lehigh.edu  
Subject: [69499] SMK-1 gremlins, an update  
Message-ID: <20000505.145638.6879.4.N5IB@juno.com>

Trying to do as much as possible before leaving for the two hour drive  
to the ballgame.

remember the gremlin - no sidetone for a couple tenth of a second.

Signal is present, no delay, immediately at pin 4 of the 612 mixer.  
Output of the 386 makes a big dc dip towards ground and take time (couple  
tenths) to recover, whereupon sidetone appears. The input of the 386 (pin  
3) also has a dc dip. C9 is not apparently shorted as it has a couple of  
volts on the Q1 side and near zero on the 386 side. The gate of Q1 is at  
about 2 V and swings promptly to ground on keydown.

Rewiring the headset jack to put the stereo phones in parallel rather  
than series improved the audio level a bit. It's perfectly adequate, just

not loud.

The bottom line is I could QSO with it and it would sound fine to the other op, but I would have no idea what I'm sending :^) Come to think of it, for a SOC, that's probably normal...

72

Jim N5IB

---

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<http://dl.www.juno.com/get/tagj>.

---

Date: Fri, 5 May 2000 13:19:08 -0700 (PDT)

From: Daniel Bartlett <ausham@yahoo.com>

To: qrp-1@LEHIGH.edu

Subject: [69500] Prospective Amateurs

Message-ID: <20000505201908.4137.qmail@web1206.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

G'day Everyone - I have not posted in a while!

A good friend of mine, Ron Bertrand (VK2DQ/4) runs an Online Amateur Radio course in Australia. He has put me through the Full-Call theory, which I passed with a breeze! He really does an excellent job.

What he is looking for however, is a few overseas, "well informed" amateurs to help facilitate the course. IE: become an 'online elmer' if you like... :-)

Please take a look at his site at

<http://www.w3.to/ronb>, and click on "Radio", followed by "Online Amateur Radio Course", to see what it is all about. He would be grateful for facilitators to come from the US, as this is where a lot of interest has been generated.

Regards,

Daniel Bartlett, VK4TDB (as of Wed. - Ex VK4HDB) Age 15.

---

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.

<http://im.yahoo.com/>

-----  
Date: Fri, 5 May 2000 22:33:47 +0200  
From: "Carel Mulder, PA0CMU" <cmulder@casema.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [69501] RE: SWR Meter  
Message-ID: <000301bfb6d1\$38090ac0\$02c8c8c8@ZOLDER01>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What's the URL for that SWR meter Bill, I'm also interested?

Carel, PA0CMU.

-----  
Date: Fri, 5 May 2000 20:34:49 +0100  
From: wd3p@juno.com  
To: ki6ds@hotmail.com, qrp-1@Lehigh.EDU  
Subject: [69502] Re: NorCal: New Kit to be available at NorCal Meeting Sunday  
Message-ID: <20000505.211953.-408191.0.wd3p@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

On Thu, 04 May 2000 19:16:46 PDT "Doug Hendricks" <ki6ds@hotmail.com>  
writes:

> Nope, better than a memory keyer, and more usable, you will either  
> have to  
> come to the meeting Sunday or wait until I get home to post it.  
> With  
> pictures of course. 72, Doug

Since we are in the guessing game and we get the no answers, if we ask  
enough questions we may just hit the right item. So I'm betting on some  
kind of portable SWR/Watt meter - perhaps based on the one in QRP  
Quarterly not too long ago using the bargraph approach.

73 de

-----  
YOU'RE PAYING TOO MUCH FOR THE INTERNET!

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<http://dl.www.juno.com/get/tagh>.

-----

Date: Fri, 5 May 2000 20:56:01 +0100

From: wd3p@juno.com

To: bgeipel@primenet.com, qrp-1@Lehigh.EDU

Subject: [69503] Re: Still more on GPS sensitivity

Message-ID: <20000505.211953.-408191.1.wd3p@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

On Fri, 5 May 2000 07:15:32 -0700 "Barry L. Geipel - AD6HR"

<bgeipel@primenet.com> writes:

>

>

> This cannot possibly be more accurate. Please explain to me how DGPS

> can be

> more accurate

> in light of SA being turned off.

>

>

The information you need it up at many of the GPS web sites.

The following is a good paper on the error sources in the GPS. It has a nice table listing the sources and how big each one is.

<http://www.cnde.iastate.edu/staff/swormley/gps/sa.pdf>

Also check out

<http://www.utexas.edu/depts/grg/gcraft/notes/gps/gps.html>

For a more detailed description of the various errors. Just page down to the section on errors. Of special not is the following I cut from that page on the errors.

\*\*\*\*\*

Tropospheric delays: 1 meter. The troposphere is the lower part (ground level to from 8 to 13 km) of the atmosphere that experiences the changes in temperature, pressure, and humidity associated with weather changes. Complex models of tropospheric delay require estimates or measurements of these parameters.

Unmodeled ionosphere delays: 10 meters. The ionosphere is the layer of the atmosphere from 50 to 500

km that consists of ionized air. The transmitted model can only remove

about half of the possible 70 ns of  
delay leaving a ten meter un-modeled residual.

\*\*\*\*\*

If you note the ionosphere 50-500 km up is a major source of error. This is now the primary error that the DGPS is correcting for now. Since it is up a ways the DGPS station can be some distance from the user and still correct for errors. Incidentally the Weather service is looking at measuring the tropospheric delays to help improve their forecasts.

The same page also has a bit of information on DGPS. You will find a bit more on DGPS at <http://www.cnde.iastate.edu/staff/swormley/gps/dgps.html>

Bottom line now is if all you need DGPS for is to correct for the SA error, then it is no longer necessary. If you need greater accuracy then DGPS will help. There are systems out there that will get you down to the within a few feet, but they don't come cheap. This stuff is being used from everything from navigation to plate tectonics and measuring earth movement around "active" volcanos.

Hope that help.

73 de Larry.....WD3P in MD

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 5 May 2000 15:35:29 -0600

From: "Brian P. Mileschosky" <n5zgt@swcp.com>

To: <bgeipel@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [69504] Re: Still more on GPS sensitivity

Message-ID: <008301bfb6d9\$d6cd4b00\$6d0586cc@hlw11>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello Again Everybody,

Short and sweet since OT. Barry, DGPS beacons transmit the errors they find by comparing the position determined from the satellites, with its actual exact KNOWN (user preset) long/lat. It then transmits these corrections on another frequency and all DGPS receivers receive this



correction and adjust themselves -- hence greater accuracy (1-3 meter). The satellites are so far out in space that the little distances we travel here on earth are insignificant. So if two receivers are fairly close to each other, say within a few hundred kilometers, the signals that reach both of them will have traveled through virtually the same slice of atmosphere, and so will have virtually the same errors. So you will not have "doubled" the error.

Also, your GPS may say it is receiving at 2-3 meter accuracy, but in fact it is not. The "EPE" (Estimated Position Error) number your GPS receiver may display is a crude number that the GPS determines, but it does not take into account the ionospheric errors, multipath errors and the geometry of the satellites at the present time (which also lead to less accuracy if the satellites are close to one another). So don't be fooled by it. With clear unobstructed sky with little or no masking by the terrain, the BEST you'll get with your GPS is 7-8 Meters 2DRMS, and at the worst around 20 meters (sorry to burst your bubbles everyone...but still very good considering the size of the earth).

If anyone has any more questions (or doubts) about DGPS, please visit [http://www.trimble.com/gps/fsections/aa\\_f4.htm](http://www.trimble.com/gps/fsections/aa_f4.htm) and read the excellent info there. Or email me privately and I'll try to enlighten you.

Again, my apologies for the OT post...just wanted to clear up any further doubts or confusion about DGPS that may have been created.

72,  
Brian, N5ZGT

----- Original Message -----

From: Barry L. Geipel - AD6HR <bgeipel@primenet.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Friday, May 05, 2000 8:15 AM  
Subject: Re: Still more on GPS sensitivity

> This makes no sense whatsoever. Just what is DGPS transmitting? The  
> ionospheric and  
> multipath corrections from its location? Combine that with different  
> ionosphereic and  
> multipath errors from your location and you have doubled the error!  
>  
> 1) DGPS station get a slightly off reading based on multipath/ionosphereic  
> (MI from now on)  
> 2) DGPS station corrects for MI error (thinking it was SA error). MI  
> deviation will change all the time  
> 3) DGPS station tranmists the MI correction for itself which is only good  
> for itself.

> 4) DGPS enabled user gets a reading from his GPS which has its own MI  
error  
> 5) DGPS enabled user receives DGPS corrections (which are actually the MI  
> corrections for the  
> location of the DGPS station and therefore irrelevant to the DGPS  
> enabled user  
>  
> This cannot possibly be more accurate. Please explain to me how DGPS can  
be  
> more accurate  
> in light of SA being turned off.  
>  
> Barry  
>  
> PS: My GPS is giving me 2-3 meter accuracy right now.

-----  
Date: Fri, 05 May 2000 14:57:33 -0700  
From: Bob Hightower <nk7m@extremezone.com>  
To: Ab5xq@aol.com  
Cc: qrp-l@lehigh.edu  
Subject: [69505] Re: SWR Meter  
Message-ID: <200005052155.0AA28198@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 12:16 PM 5/5/2000 -0400, you wrote:

>Can anyone in the group point me to a web page or publication that has info  
>on building a simple swr indicator with LED(s)? I believe I recently ran  
>across one, but for the life of me, I cannot remember where.  
>

It's on my page, at <http://www.extremezone.com/~nk7m/n7veswr.htm>

Bob Hightower NK7M  
Chandler, AZ  
SOC #20

<http://www.extremezone.com/~nk7m>

-----

Date: Fri, 5 May 2000 18:34:10 -0400  
From: "Randy Joiner" <biggman@accucomm.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [69506] Re: Warning: XYL on Warpath!  
Message-ID: <000f01bfb6e2\$0b5be860\$e5819bce@accucomm.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Remember Ed, if Momma ain't happy.....ain't Noooooooooooooobody happy! Heck she might even get mad enough to make you sleep outside in the hamshack. What punishment!!! :-)

72

Randy N4SX

-----  
Date: Fri, 5 May 2000 18:57:49 -0400  
From: "Ron Polityka" <wb3aal@talon.net>  
To: ". QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [69507] Appalachian Trail Alert for PA Update  
Message-ID: <01c201bfb6e5\$56e3d100\$10e508cf@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello Everyone,

Well Len, N2BSC can not make it to the Appalachian Trail on May 6, 2000 with myself. So I am going out on my own and I am going to hold to the 40, 20, 15, & 10 meters with a change of band every 30 minutes.

Look for me on 40 meters starting at 13:00 UTC.

72 & 73  
Good DXing

Ron Polityka  
de WB3AAL  
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv

<http://www.n3epa.org>  
Eastern Pennsylvania QRP Club Call  
N3EPA E-mail address: n3epa@talon.net

|                    |               |
|--------------------|---------------|
| EPA QRP #1         | NJ QRP #179   |
| KL7 QRP # 309      | G-QRP # 3031  |
| ARCI QRP # 5318    | 10 - X #13173 |
| NorCal             | Zombie #625   |
| ARS # 380          | HI-QRP #153   |
| VA QRP Society #45 |               |

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End of QRP-L Digest 1812  
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